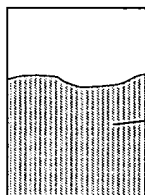


**Figure 1**

### **pH-Sensitive Mucoadhesive Film-Forming Gels**



**A**

#### Composition of Gel:

- A solvent vehicle comprising at least 25% water
- Water-insoluble swellable mucoadhesive polymer(s)
- pH-sensitive film-forming polymer(s)
- Molecule of interest

### **pH-Sensitive Mucoadhesive Wax-Film Composites**



**A\***

**B**

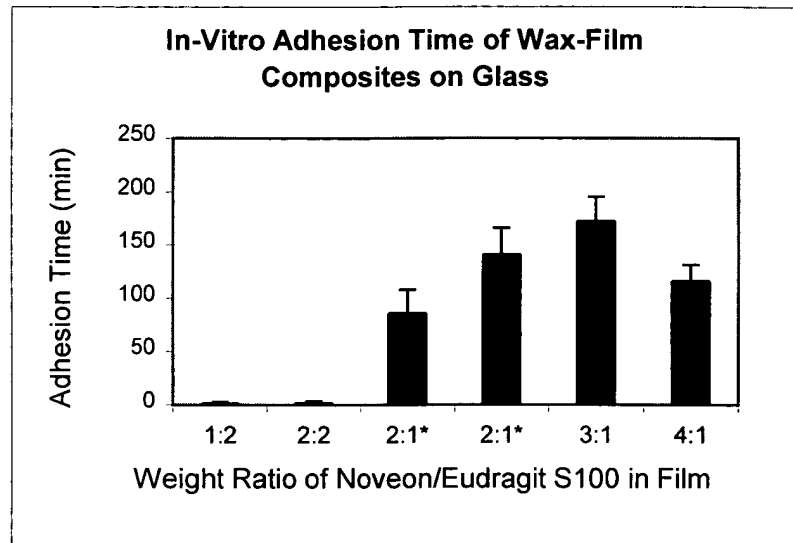
#### Composition of Wax-Film Composite:

- A\*:** pH-sensitive mucoadhesive layer (comprised of the components of A above less the solvent vehicle)
- B:** Water-insoluble wax layer with water-soluble or water-swellable polymer

Note: Molecule of interest is contained in either A\* or B, or both

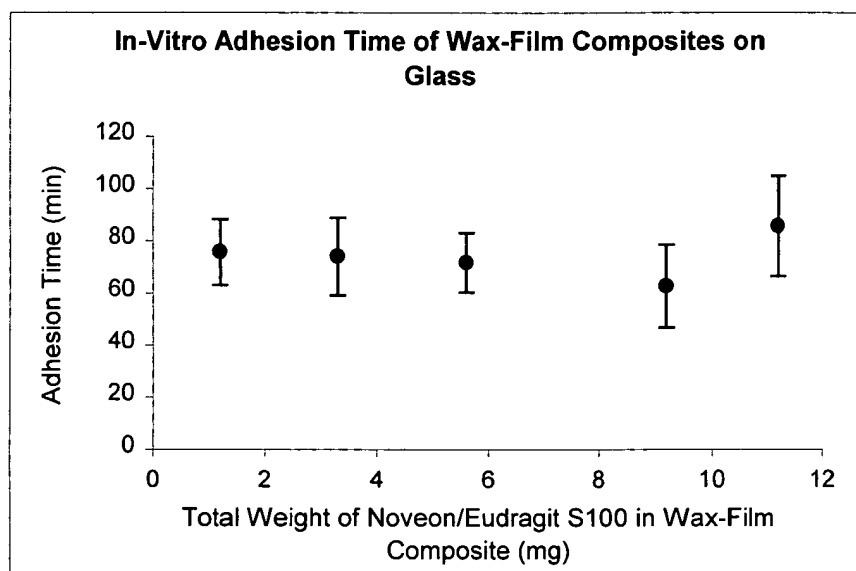
09748133-122700

**Figure 2**

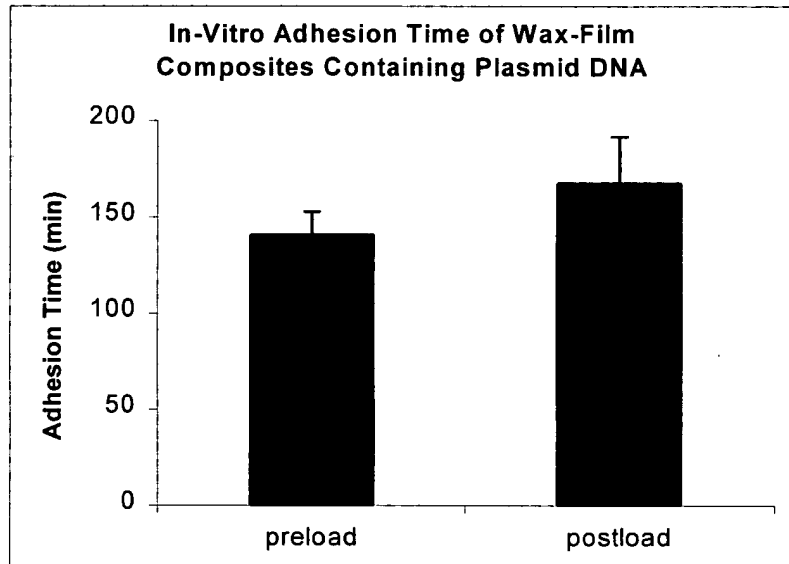


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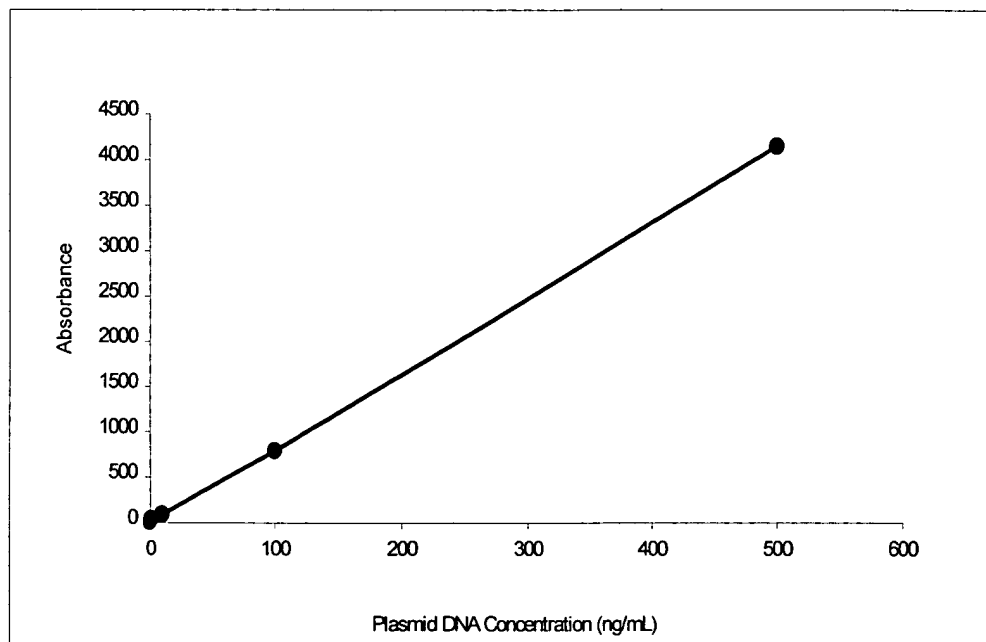
**Figure 3**



**Figure 4**

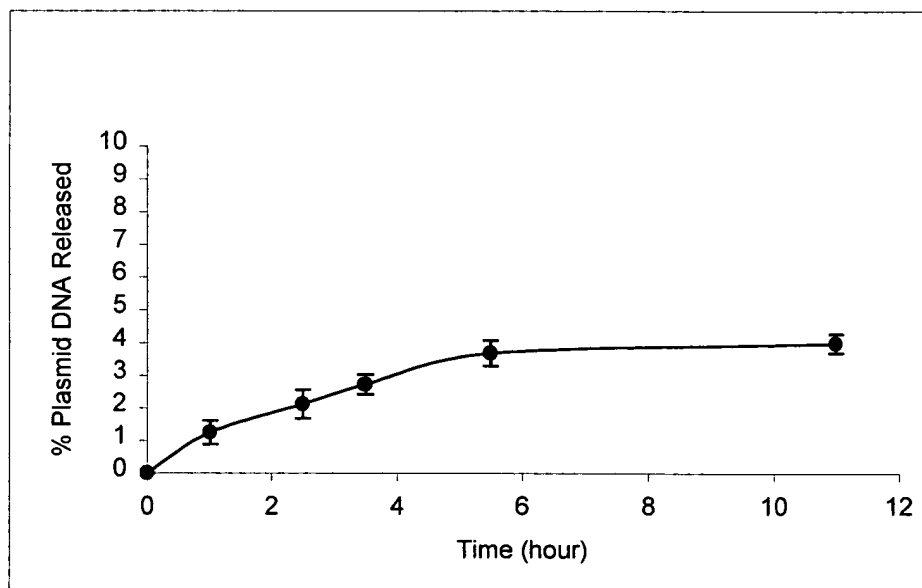


**Figure 5**

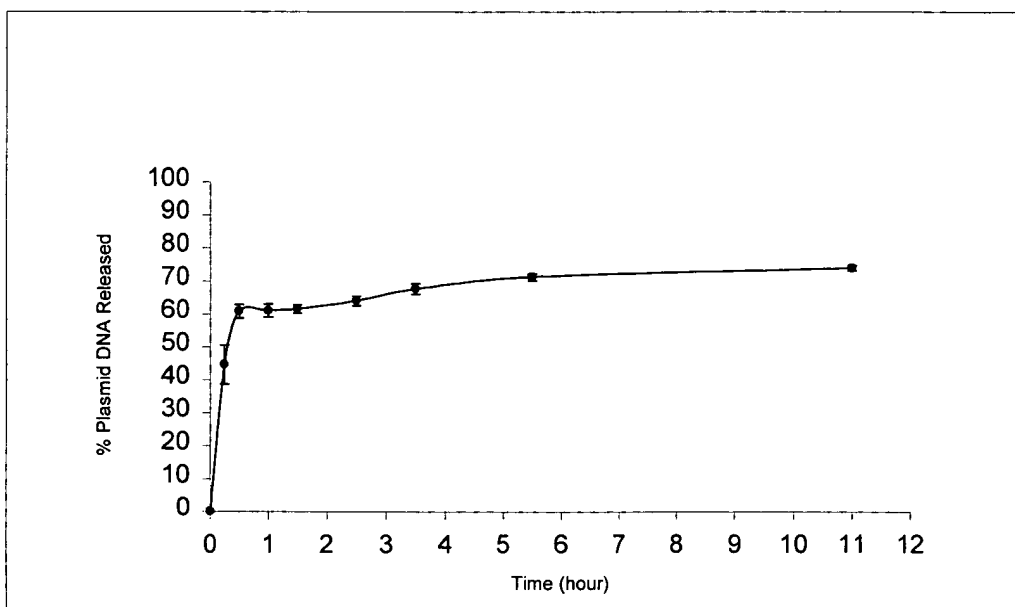


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Figure 6



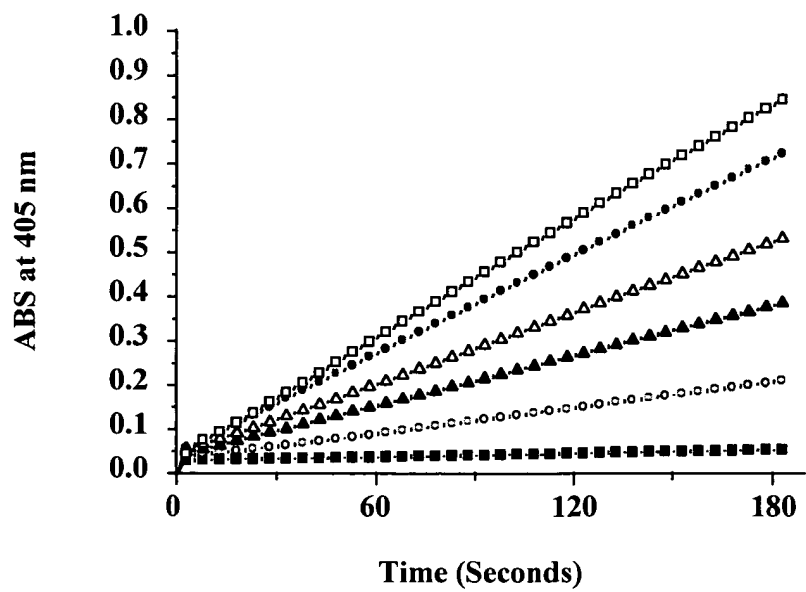
**Figure 7**



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Figure 8

A



B

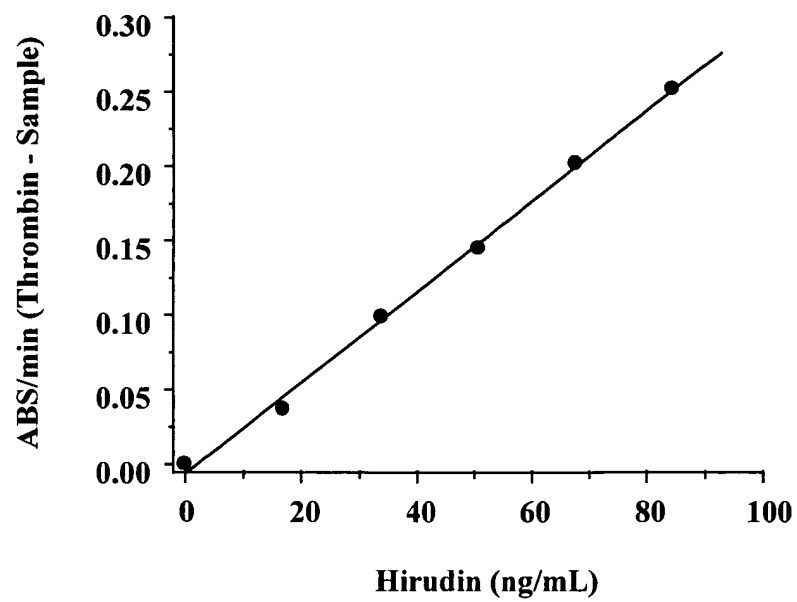




Figure 9

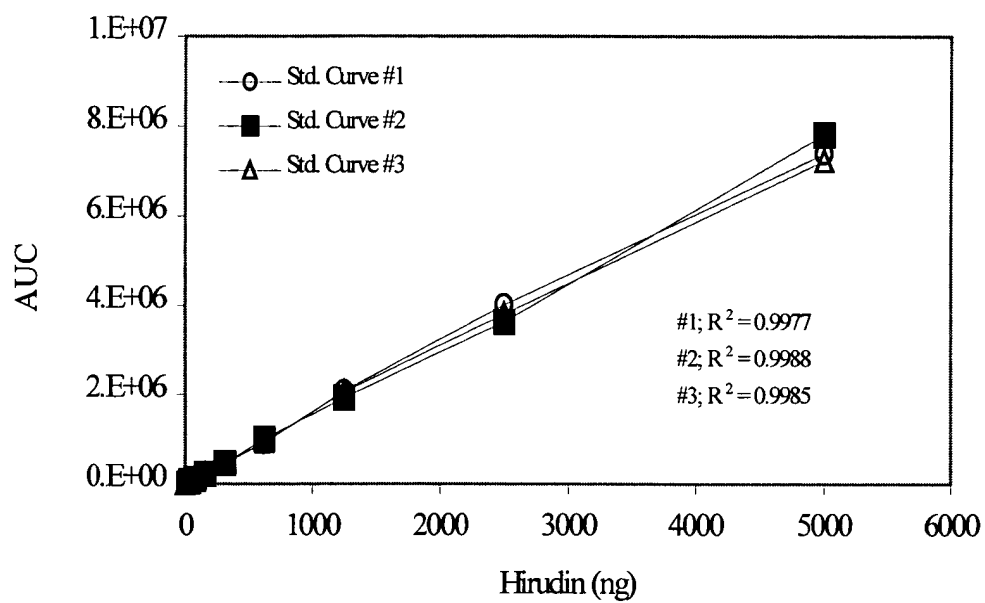
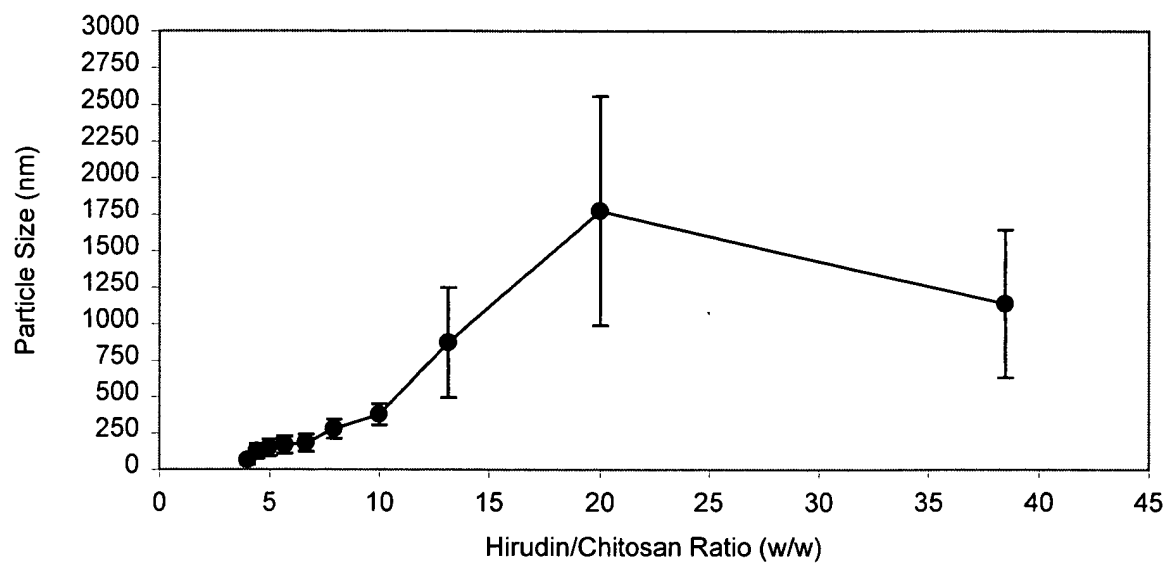


Figure 10



**Figure 11**

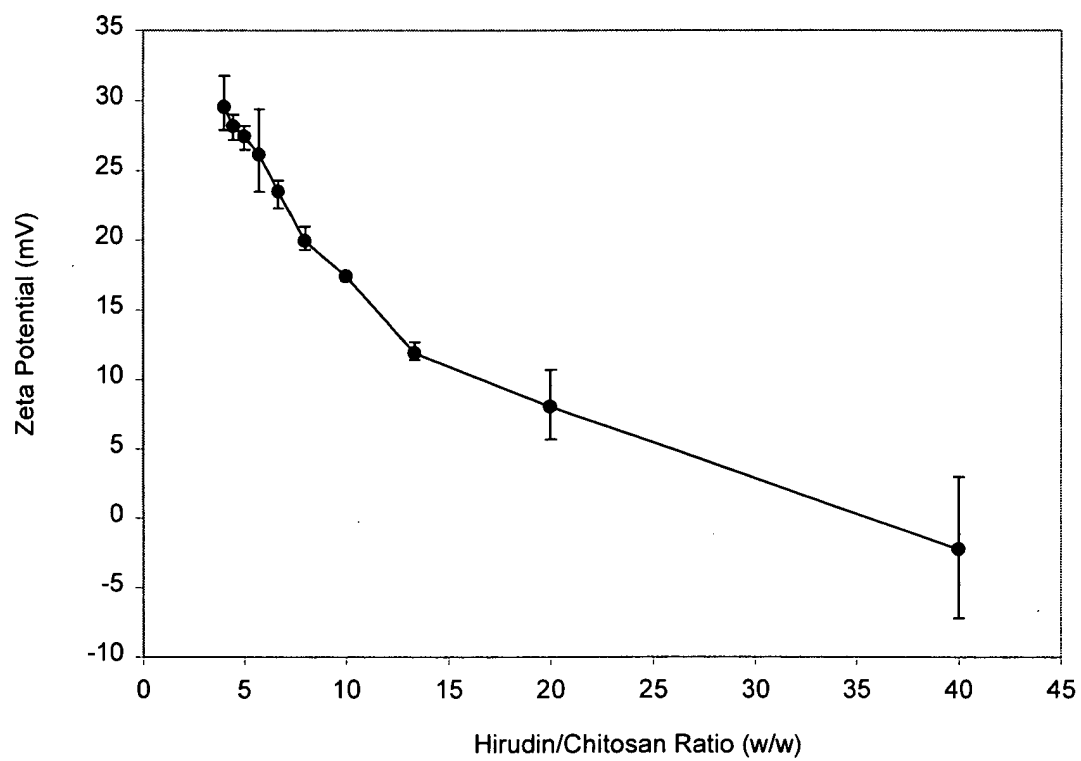


Figure 12

